AMENDMENTS TO THE CLAIMS

1.   (Currently Amended) A method of increasing throughput of a server capable of servicing at least one TCP/IP connection with a client, the server creating a TCP/IP Transmission Control Block (TCB) stored in non-paged pool (NPP) memory containing information required to identify and to service the client connection, comprising:

closing a TCP/IP connection;

excluding information from the TCB not required to identify the client connection to form a timed-wait state TCB (TWTCB) for a time-wait period; and

releasing the NPP memory containing the information required to service the client connection;

wherein excluding information includes excluding at least one of a connection state information, send and receive queue information, a routing disconnect indication, and a routing information for the connection.

2.   (Original) The method of claim 1, wherein the step of excluding comprises the step of copying the information required to identify the client connection to form the TWTCB.

3.   (Original) The method of claim 2, wherein the step of releasing the NPP memory containing the information required to service the client connection includes the step of releasing the NPP memory of the TCB required to identify the client connection.

4.   (Original) The method of claim 1, wherein the step of excluding information not required to identify the client connection to form the TWTCB comprises the step of maintaining a minimum of information necessary to avoid late-routed packets forming new connections on the server.

5-6.   (Canceled)

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7.   (Original) The method of claim 1, wherein the step of excluding information not required to identify the client connection comprises the step of forming a TWTCB that occupies less memory than the TCB.

8.   (Original) The method of claim 7, wherein the step of forming a TWTCB that occupies less memory than the TCB comprises the step of forming a TWTCB that occupies approximately 96 bytes of memory.

9.   (Original) The method of claim 7, wherein the step of forming a TWTCB that occupies less memory than the TCB comprises the step of forming a TWTCB that occupies approximately 64 bytes of memory.

10.   (Original) The method of claim 7, wherein the step of forming a TWTCB that occupies less memory than the TCB comprises the step of forming a TWTCB that occupies approximately a single cache line.

11.   (Currently Amended) A method for increasing the throughput of a server capable of servicing at least one TCP/IP connection, the server establishing a TCP/IP Transmission Control Block (TCB) of a size and containing information sufficient to identify and service the connection, comprising:

        closing the at least one TCP/IP connection;

        forming a Timed-Wait TCB (TWTCB) of a size less than the TCB; and

        releasing the TCB for use by the server;

        wherein forming the TCB includes excluding at least one of a connection state information, send and receive queue information, a routing disconnect indication, and a routing information for the connection.

12.   (Original) The method of claim 11, wherein the step of forming a TWTCB comprises the step of copying a portion of the information of the TCB, the portion of information

being sufficient to identify the TCP/IP connection to prevent late routed packets from forming new connections.

13.   (Original)   The method of claim 12, wherein the TCB occupies approximately 440 bytes of memory, and wherein the step of forming a TWTCB comprises the step of forming a TWTCB that occupies approximately 206 bytes of memory.

14.   (Original)   The method of claim 12, wherein the TCB occupies approximately 440 bytes of memory, and wherein the step of forming a TWTCB comprises the step of forming a TWTCB that occupies approximately 32 bytes of memory.

15-16.   (Canceled)

17.   (Original)   The method of claim 11, wherein the step of forming a TWTCB comprises the step of copying a portion of the information of the TCB, the portion of information being insufficient to service the TCP/IP connection.

18.   (Currently Amended)   A computer readable medium having computer-executable instructions for performing steps, comprising:
    closing a TCP/IP connection;
    copying less than all information stored in a TCP/IP Transmission Control Block (TCB) into a Timed-Wait TCB (TWTCB); and
    maintaining the TWTCB for a timed wait period to avoid late routed packets from establishing a new connection with a server;
    wherein copying less than all information includes excluding at least one of a connection state information, send and receive queue information, a routing disconnect indication, and a routing information for the connection.

19.   (Original)   The computer-readable medium of claim 18, wherein the step of copying less than all the information stored in a TCB into a TWTCB comprises the step of copying information sufficient to uniquely identify the TCP/IP connection.

20.   (Original)   The computer-readable medium of claim 18, further comprising the step of releasing memory used to store the TCB for use by the server after the step of copying less than all of the information stored in the TCB into a TWTCB.

21.   (Original)   The computer-readable medium of claim 18, wherein the step of copying less than all the information stored in a TCB into a TWTCB results in a structure for the TWTCB that fits on one cache line.

22-23. (Canceled)